

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Holly Prentice

Appl. No.: 10/532,197 (*U.S. National
Phase of PCT/US2003/033433*)

Int'l Filing Date: October 22, 2003

For: **High Expression Locus Vector
Based on Ferritin Heavy Chain
Gene Locus**

Confirmation No.: 8404

Art Unit: 1636

Examiner: *To Be Assigned*

Atty. Docket: 2159.0580001/EKS/LMB

Information Disclosure Statement

Mail Stop Amendment

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying IDS Forms are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Applicant has listed publication dates on the attached IDS Forms based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicant reserves the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

This Information Disclosure Statement is being filed under 37 C.F.R. § 1.97(b) before the mailing date of a first Office Action on the merits. Therefore, no statement or fee is required.

Documents **FP2-FP3** and **NPL1**, **NPL4** and **NPL5** were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.

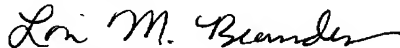
Copies of documents **FP1-FP3** and **NPL1-NPL15** are submitted.

It is respectfully requested that the Examiner initial and return a copy of the enclosed IDS Forms, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



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Date: September 12, 2006

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Use as many sheets as necessary)

[illegible]

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ² Number ³ Kind Code ⁴ (if known)				
	FP1	WO 04037982 A2	05-06-2004	Biogen, Inc. and Prentice		
	FP2	KR 10-2002-0092089	12-11-2002	Korea Research Institute of Bioscience & Biotechnology		
	FP3	WO 02097098	12-05-2002	RNA Inc.		

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This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours (and complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449/PTO				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)				Application Number	10/532,197 (U.S. Nat'l Phase of PCT/US2003/033433)
				Int'l Filing Date	October 22, 2003
				First Named Inventor	Holly Prentice
				Art Unit	1636
				Examiner Name	To Be Assigned
Sheet	1	of	2	Attorney Docket Number	2159.0580001/EKS/LMB

NON PATENT LITERATURE DOCUMENTS				
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published	T ²	
	NPL1	Guo, J.-H., <i>et al.</i> , "Expression and Loading of Recombinant Heavy and Light Chain Homopolymers of Rat Liver Ferritin," <i>Arch. Biochem. Biophys.</i> 335:197-204, Academic Press, Inc. (1996)		
	NPL2	Hentze, M.W., <i>et al.</i> , "Cloning, characterization, expression, and chromosomal localization of a human ferritin heavy-chain gene," <i>Proc. Natl. Acad. Sci. USA</i> 83:7226-7230, The National Academy of Sciences (1986)		
	NPL3	Klausner, R.D., <i>et al.</i> , "Regulating the Fate of mRNA: The Control of Cellular Iron Metabolism," <i>Cell</i> 72:19-28, Cell Press (1993)		
	NPL4	Kwak, E.L., <i>et al.</i> , "Role for NF- κ B in the Regulation of Ferritin H by Tumor Necrosis Factor- α ," <i>J. Biol. Chem.</i> 270:15285-15293, The American Society for Biochemistry and Molecular Biology, Inc. (1995)		
	NPL5	Marziani, G., <i>et al.</i> , "Transcriptional Regulation of the Ferritin Heavy-Chain Gene: the Activity of the CCAAT Binding Factor NF-Y Is Modulated in Heme-Treated Friend Leukemia Cells and during Monocyte-to-Macrophage Differentiation," <i>Mol. Cell. Biol.</i> 17:1387-1395, American Society for Microbiology (1997)		
	NPL6	NCBI Entrez, GenBank Report, Accession No. AY147930, Prentice, H.L., Entry Date September 2005		
	NPL7	NCBI Entrez, GenBank Report, Accession No. M18051, Murray, M.T., <i>et al.</i> , Entry Date September 2005		
	NPL8	NCBI Entrez, GenBank Report, Accession No. M18052, Murray, M.T., <i>et al.</i> , Entry Date September 2005		
	NPL9	NCBI Entrez, GenBank Report, Accession No. M18053, Murray, M.T., <i>et al.</i> , Entry Date September 2005		
	NPL10	Shin, Y.-M., <i>et al.</i> , "Enhanced Iron Uptake of <i>Saccharomyces cerevisiae</i> by Heterologous Expression of a Tadpole Ferritin Gene," <i>Appl. Environ. Microbiol.</i> 67:1280-1283, American Society for Microbiology (March 2001)		

Examiner Signature	Date Considered
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Sheet	2	of	2	Attorney Docket Number	2159.0580001/EKS/LMB

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Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume issue number(s), publisher, city and/or country where published	T ²
	NPL11	Thompson, J.D., <i>et al.</i> , "CLUSTAL W: improving the sensitivity of progressive multiple sequence alignment through sequence weighting, position-specific gap penalties and weight matrix choice," <i>Nucleic Acids Res.</i> 22:4673-4680, Oxford University Press (1994)	
	NPL12	Urlaub, G., <i>et al.</i> , "Effect of Gamma Rays at the Dihydrofolate Reductase Locus: Deletions and Inversions," <i>Som. Cell. Mol. Genet.</i> 12:555-566, Plenum Publishing Corporation (1986)	
	NPL13	Wilson, C., <i>et al.</i> , "Position Effects on Eukaryotic Gene Expression," <i>Annu. Rev. Cell. Biol.</i> 6:679-714, Annual Reviews Inc. (1990)	
	NPL14	Search Report for Georgian Patent Application No. 2003 008806 mailed July 26, 2006, 8 pages.	
	NPL15	English-language Abstract for Korean Application No. 10-2002-0092089, 1 page.	

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